

NEDOKUCHAYEV, Boris Nikolayevich; ZHARSKIY, N.A., kand. tekhn. nauk, red.;  
FREGER, D.P., red. izd-ya; GVIRTS, V.L., tekhn. red.

[Mechanizing the transportation of flour in bulk] Mekhanizatsiia  
bestarnoi perevozki muki; stenogramma doklada, pročitannogo v LDNTP  
na seminare ragotnikov khlebopekarnoi promyshlennosti. Leningrad,  
Leningradskii Dom nauchno-tekhnicheskoi propagandy, 1961. 17 p.  
(MIRA 14:7)

(Flour--Transportation)

ZBARSKIY, N.Sh.; KOLDOBSKIY, Ye.M.

Use of the N.F. Gatilin bunker dough mixer. Khleb. 1 kond. prom.  
1 no.2:36-39 P '57. (MIRA 10:4)

1. Leningradskiy trest Hozglavkhleba.  
(Mixing machinery) (Bakers and bakeries--Equipment and supplies)

ZBARSKIY, N.Sh.

Method for preparing microtomic bread slices. Khleb. i kond.  
prom. 1 no.4:25-26 Ap '57. (MLRA 10:5)

1. Leningradskiy trest Glavnogo upravleniya khlebopekarnoy  
promyshlennosti RSFSR.  
(Microtome) (Bread)

ZBARSKIY, N.Sh.; GIMMERVERT, R.V.

Layouts for processing wheat flour with poor baking qualities.  
Khleb. i kond. prom. 1 no.4:39-41 Ap '57. (MLRA 10:5)

1. Tsentral'naya laboratoriya Leningradskogo 'tresta Glavnogo  
upravleniya khl'bopekarnoy promyshlennosti RSFSR.  
(Flour)

ZBARSKIY, M.Sh.; YEGOROVA, A.Ye.; ISAYKIN, A.M.

Results of testing K.M.Chishova's instrument for the determination  
of moisture of dough and bread. Vop.pit. 13 no.1:43 Ja-Y '54.

(MLBA 7:1)

1. Iz Tsentral'noy laboratorii I Leningradskogo tresta "Glavkhleb".  
(Dough) (Measuring instruments)

ZBARSKIY, S. G.

①  
Melting high-strength iron in a cupola. S. G. Zbarskiy.  
*Liteline Proizvodstvo* 1952, 6, 28-9.—A superior iron is produced when a cupola is run on alternating charges combined in the forehearth. Two charges contg. 4.0-4.2% of the combined C and Si is followed by one having 4.8-5.2% of these elements, and this sequence is repeated indefinitely. Castings made of such mixts. have high mech. characteristics. Mixing two liquid irons with different contents of elements causes not a simple mixing resulting in the change of compn. alone, but is a series of processes producing phys. and physicochem. changes in the nature of the liquid phase which, on crystn., exert a specific influence on the size and shape of the forming crystals, particularly graphite crystals, thus producing an inoculating effect.  
J. D. Gat

ZBARSKIY, S. G.

"Production of High-Quality Cupola Iron," Liteynoye Proizvodstvo (1952)  
No 6, pp 28/29.

B-73331, 1 Apr 54

MITROFANOV, V.; ZUYEV, I.; MASHKAUTSAN, S.; YARTSEV, G.; KAMKIN, L.; ZBARSKIY, S.; GLUSHCHENKO, M.; ROZKIN, G.

Shortcomings of the stage system of teaching. Prof.-tekh. obr. 21  
no. 7:29-31 JI '64. (MIRA 17:11)

1. Nachal'nik otdela podgotovki kadrov Yuzhno-Ural'skogo soveta narodnogo khozyaystva (for Mitrofanov). 2. Direktor tsentral'nogo uchebnogo kombinata Yuzhno-Ural'skogo soveta narodnogo khozyaystva (for Zuyev). 3. Nachal'nik otdela tekhnicheskogo obucheniya Chelyabinskogo traktornogo zavoda (for Yartsev). 4. Nachal'nik otdela tekhnicheskogo obucheniya Chelyabinskogo metallurgicheskogo zavoda (for Kamkin). 5. Direktor TSentral'nogo uchebnogo kombinata "Glavyuzhuralstroy" (for Zbarskiy). 6. Nachal'nik otdela tekhnicheskogo obucheniya Magnitogorskogo metallurgicheskogo kombinata (for Glushchenko).



CHERNETSKIY, V.D., inzh.; CHECHERSKIY, D.M., inzh.; ZHARSKIY, S.G., inzh.;  
SOKOLOV, A.Ye., inzh.

Complex inoculant for cast iron. Mashinostroenie no.3:  
25-26 My-Je '65. (MIRA 18:6)

ZBANSKIY, S. G.

Cast Iron

Producing high quality pig iron in a cupola. Lit. proiz. no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 195~~8~~<sup>7</sup>, Uncl.  
2

USSR/Metallurgy - Cast Iron, Technology Jan 52

"Obtaining High-Quality Cast Iron in the Cupola Furnace," S. G. Zbarskiy, Eng

"Litye Proizvod" No 6, pp 28, 29

Describes procedure for obtaining high-quality cast iron without adding inoculants to the ladle. Method is based on alternating charges for cupola: 2-3 so-called "strong" charges with C-Si total of 4.0-4.2% and one "soft" charge with sum of same elements in 4.8-5.2% range. States that mixing

230744

of 2 liquid metals in holding furnace before pouring large castings has inoculating effect, resulting in high-quality metal no more expensive than cast iron inoculated with ferrosilicon.

230744

ZBARSKIY, S. G.

ANALYST CN: 2006

SUBMITTED: 12Sep62

ENCL: 00

SUB CODE: 00

Card 1/2

L 43892-65

ACCESSION NR: AP5010854

NO REF SOV: 000

OTHER: 000

Card 2/2 CC

SHUTOV, G.M.; ZBARSKIY, V.L.; ZHILIN, V.F.; ORLOVA, Ye.Yu.

Nucleophilic substitution by halogen in aromatic nitro compounds.  
Part 2: Catalytic effect of pyridine in reactions of polynitro  
derivatives of benzene and phenol with phosphorus oxychloride.  
Zhur. ob. khim. 35 no.8:1358-1361 Ag '65. (MIRA 18:8)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I.  
Mendeleeva.

SHUTOV, G.M.; ZBARSKIY, V.L.; ZHILIN, V.F.; ORLOVA, Ye.Yu.

Nucleophilic substitution of halogen for a nitro group in aromatic nitro compounds. Part 1: Interaction of tetranitro derivatives of benzene with halogen acids and phosphoryl chloride. Zhur.ob.khim. 33 no.10:3210-3211 O '63.

(MIRA 16:11)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I. Mendeleyeva.

ZBARSKIY, V.L.; SHUTOV, G.M.; ZHILIN, V.F.; ORLOVA, Ye.Yu.

Some particular features of nitration in the diphenylamine series. Zhur. org. khim. 1 no.7:1237-1239. JI '65.

(MIRA 18:11)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I. Mendeleeva.

L 29294-66 EWP(1)/ERT(m)/T RM/WW/JW/JND

ACC NR: AP6019318

SOURCE CODE: UR/0079/65/035/008/1358/1361

AUTHOR: Shutov, G. M.; Zbarskiy, V. L.; Zhilin, V. P.; Orlova, Ye. Yu.

ORG: Moscow Chemicotechnological Institute im. D. I. Mendeleev (Moskovskiy khimiko-  
tehnologicheskii institut)

TITLE: Nucleophilic substitution of halogen in aromatic nitro compounds. II. Catalytic action of pyridine in reactions of polynitro derivatives of benzene and phenol with phosphorus oxychloride

SOURCE: Zhurnal obshchey khimii, v. 35, no. 8, 1965, 1358-1361

TOPIC TAGS: aromatic nitro compound, catalysis, pyridine, chemical reaction

ABSTRACT: The substitution of NO<sub>2</sub> groups with Cl in 1,2,4,6-tetranitrobenzene, 2,3,4,6-tetranitroaniline, 2,3,4,6-tetranitrophenol, 1,2,4-trinitrobenzene, 3,4,5-trinitrotoluene, 3,4,5-trinitrochlorobenzene, 3,4-dinitrochlorobenzene, o-dinitrobenzene, and p-dinitrobenzene was studied. The dinitro derivatives of benzene did not react either with concentrated HCl or with POCl<sub>3</sub> in the presence of pyridine. The trinitro derivatives reacted with POCl<sub>3</sub> under substitution of the activated NO<sub>2</sub> group, but only in the presence of pyridine. Tetranitrobenzene and tetranitroaniline

Card 1/2

UDC: 547.546:+547.564.3



L 29294-66

ACC NR: AF6019318

did not react with  $\text{POCl}_3$  in the absence of pyridine, but reacted with it when pyridine had been added, yielding chloro derivatives (2,4,6-trinitro-3-chloroaniline in the case of tetranitroaniline). Tetranitrophenol reacted with  $\text{POCl}_3$  in the absence of pyridine, yielding 2,4,6-trinitro-3-chlorophenol, but the reaction took place only when the mixture was diluted with water. Apparently, tetranitrophenol reacted with  $\text{HCl}$  formed by hydrolysis of  $\text{POCl}_3$ . Addition of pyridine to tetranitro derivatives required caution, because pyridine was ignited by them. The reaction of styphnic acid (1,3-dihydroxy-2,4,6-benzene) with  $\text{POCl}_3$  in the presence of pyridine hydrochloride resulted in the formation of 2,4,6-trinitro-3-chlorophenol. This indicated that electrophilic substitution must be the initial stage of the reaction of nitrophenols with  $\text{POCl}_3$  (apparently substitution of H in 3-OH with a  $\text{POCl}_2$  group took place.) A reaction of monopyridine styphnate with  $\text{POCl}_3$  in the presence of water did not take place, while in the absence of water 1,3-dichloro-2,4,6-trinitrobenzene formed. Addition of pyridine to a suspension of styphnic acid in  $\text{POCl}_3$  resulted in ignition of the mixture; for this reason monopyridine styphnate was prepared initially and the salt brought into reaction with  $\text{POCl}_3$ .

Orig. art. has: 2 figures and 2 formulas. [JPRS]

SUB CODE: 07 / SUBM DATE: 04Jul64 / ORIG REF: 003 / OTH REF: 002

Card 2/2 CC

L 30402-66 EWP(j)/EWT(m)/EIC(r)/T RIA/DS/WW/JW/JWD/WE

ACC NR AP6008099

SOURCE CODE: UR/0076/66/040/002/0504/0506

AUTHOR: Zhilin, V.F.; Zbarskiy, V.L.; Shutov, G.M.; Orlova, Ye. Yu.

ORG: Moscow Chemical Engineering Institute im. D.I. Mendeleev (Moskovskiy khimiko-tekhnologicheskoy institut)

TITLE: Methods of studying the kinetics of fast exothermic reactions

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 2, 1966, 504-506

TOPIC TAGS: chemical reaction kinetics, heat of reaction, exothermic reaction, tertiary amine, nitric acid

ABSTRACT: An attempt was made to work out a technique which would make it possible to minimize the error introduced by the period of mixing of the reagents in exothermic reactions. To this end, use was made of the reaction of hexamethylenetetramine or its dinitrate with anhydrous nitric acid (which yields cyclotrimethylenetrinitroamine). The heat of reaction is 88.0 kcal/mole when hexamethylenetetramine is used, and 41.7 kcal/mole when its dinitrate is employed; to eliminate the overheating (which would raise the reaction temperature to 160C for hexamethylenetetramine), the reagents were first cooled. A method is given for calculating the "equivalent time of mixing"  $\tau_{eq}$ , i.e., the reaction time at a constant temperature  $T_1$  required for the desired concentration of the product  $c_1$

Card 1/2

UDC: 541/.54

L 30402-66

ACC NR: AP6008099

to be formed, and it is shown that this method can indeed be used for reducing the errors introduced by the period of mixing of the components in studies of the kinetics of fast exothermic reactions. Orig. art. has: 5 figures and 4 formulas.

||  
SUB CODE: 07 / SUBM DATE: 01Nov64 / OTH REF: 004

Card 2/2 CC

ACCESSION NR: AP4033973

S/0121/64/000/004/0007/0009

AUTHORS: Zbarskiy, Yu. Sh.; Tenner, O. G.

TITLE: Mechanisms for precise stoppage of working elements in precision machine tools with programmed control

SOURCE: Stanki i instrument, no. 4, 1964, 7-9

TOPIC TAGS: mechanical metal cutting, programmed control, machine tool, automatic stopping/ 2A430 coordinate dissipation machine, RPN 7 polarizing relay, RPN 70 relay

ABSTRACT: The authors studied automatic stopping systems for the working parts of a model 2A430 coordinate dissipation machine, taking into account factors governing the precision of stopping at a required coordinate. The system is schematically shown in Fig. 1 on the Enclosure. As the working part (1) moves, the inductive pickup passes through a measuring instrument (4), a polarizing relay (5) of the type RPN-7, an intermediate relay (6) of the type RPN-70, a contact (7), and the electric motor (8) which drives the working part. The use of magnets for releasing the bearing was found to reduce the accuracy of the stopping mechanism. The form of the sensitive element for the feed control should be determined by the precision

Card 1/3

ACCESSION NR: AP4033973

required. For accuracies of the order of 0.5 to 1.5 microns, it was found necessary to use electromagnetic relays or instruments with photocells and to limit the rate of the feed to 2-4 mm/min. For a precision of the order of 5 to 8 microns, polarizing relays and feed speeds of the order of 10-30 mm/min could be used. The stability of the polarizing relay could be improved by the use of "strong break-off" schemes and discharge contacts. Orig. art. has: 3 formulas and 5 figures.

ASSOCIATION: Odeskiy zavod frezernykh stankov im. S. M. Kirova (Odessa Milling Machine Factory)

SUBMITTED: 00

ENCL: 01

SUB CODE: IE

NO REF SOV: 001

OTHER: 000

Card 2/3

ACCESSION NR: AP4033973

ENCLOSURE: 01

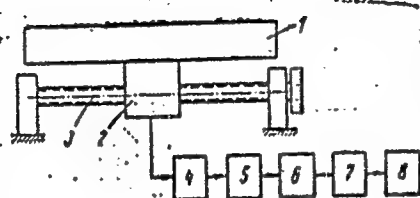


Fig. 1. Schematic diagram.

Card 3/3

ZBARSKY, B. I.

"The Role of Red Blood Cells in the Intermediate Protein Metabolism." (p. 599) by  
Zbarsky, B. I. (Moscow)

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. 16, No. 6, 1943.

ZBARSKYY, B.Y., YEL'PINER, Y. YE.

Cancer

Coagulating capacity of blood proteins and diagnosis of cancer. Ukr. biokhim. zhur.  
22 No. 4, 1950

9. Monthly List of Russian Accessions, Library of Congress, September ~~1951~~, Uncl.  
1952



ZBARSKYY, B.Y., YEL'PINER, Y. YE.

Blood

Coagulating capacity of blood proteins and diagnosis of cancer. B. Y. Zharskyy, Y. Ye. Yel'piner, Ukr. biokhim. zhur. 22 No. 4, 1950

9. Monthly List of Russian Accessions, Library of Congress, September ~~1951~~, Uncl.  
1952

ZBARSKYY, B.Y., YEL'PINER, Y. YE.

Proteins

Coagulating capacity of blood proteins and diagnosis of cancer. Ukr. biokhim. zhpr.  
22 No. 4, 1950

9. Monthly List of Russian Accessions, Library of Congress, September ~~1952~~<sub>1952</sub>, Uncl.

ZBAPSKIY, Sh.Yu., kand.med.nauk

Importance of pupil width in studying dark adaptation in patients  
with glaucoma. Oft.zhur. 13 no.2:81-85 '58. (MIRA 11:4)

1. Iz glaznoy polikliniki g. Odessy (glavvrach-A.S.Segalovich)  
pri klinike glaznykh bolezney Odesskogo meditsinskogo instituta.  
(GLAUCOMA) (NIGHT VISION)

ZBARSKIY, Yu.Sh.; TENNER, O.G.

Mechanisms for accurate stopping of operating elements of  
program-controlled precision machine tools. Stan. 1 instr.  
35 no. 4:7-9 Ap '64. (MIRA 17:5)

ZBARSKIY, Yu.Sh.; KRASNYANSKIY, A.S.

New system of efficient control in honing. Stan.1 instr. 32  
no.7:13-14 JI '61. (MIRA 14:6)  
(Grinding and polishing)  
(Automatic control)

1.1100

2908 also 1089, 1068

22917  
S/121/61/000/007/002/004  
D040/D112

AUTHORS: Zbarskiy, Yu.Sh., and Krasnyanskiy, A.S.

TITLE: A new automatic process-control system for honing

PERIODICAL: Stanki i instrument, no. 7, 1961, 13-14

TEXT: The system has been developed and tested with satisfactory results at the im. Kirova (im. Kirov) plant, Odessa, where honing machines for up to 80 mm diameter bores are produced. The principle is the following (Fig. 1). A ring (2) with evenly spaced nozzles (3) is installed on the top of the workpiece (1). The number of the nozzles is the same as that of the hone blocks. The internal diameter of the ring exceeds by 0.1 - 0.2 mm the final bore diameter of the workpiece. Kerosene is used as a cutting fluid and fed under pressure. ~~Some of the kerosene~~ flows through a throttle (4) into the ring and leaves the ring via the nozzle; the remainder passes through two fixed resistors (d<sub>1</sub>) and (d<sub>2</sub>) and is used for cutting fluid. The nozzles are periodically closed by the moving hone (5) and pressure inside the space in the ring gradually rises as the hone blocks expand until the final bore diameter is reached. A pickup (Π) balances the pressure by the constant counterpressure between the resistors (d<sub>1</sub>) and (d<sub>2</sub>), and gives a command to

Card 1/4

22917

S/121/61/000/007/002/004  
D040/D112

A new automatic process-control system ...

stop honing at the moment when the set bore diameter is reached. The pickup work principle is shown in a diagram (Fig. 2). It is a differential capacitor with a membrane (1) forming one capacitor plate, and two discs (2) forming two other plates. The discs are insulated from the membrane by rings (3) and restrict its motion. The space between the membrane and the discs must be 0.1 - 0.15 mm. Insulating shims (4) prevent short circuiting. The pickup produces the command when pressure in its two spaces becomes equal. It is powered by a 30-40 kHz generator. The design of the system with the pickup is shown (Fig. 3). The pickup parts are located in a bushing of "textolite" (1) and held by cheeks (2), through which kerosene is fed to the membrane (3). Mud trap boxes (4) and a thin cloth filter (5) prevent solid particles from getting into the pickup. The throttle (6) and the fixed resistors ( $d_1$ ) and ( $d_2$ ) are in the top of the system. The honing accuracy in tests with this system was within 0.01 mm.

Card 2/4

ZBARSKIY, Yu.Sh.

Temperature deformations of inductive counting screws of  
jig boring machines. Stan. i instr. 36 no.10:24-26 0 '65.  
(MIRA 18:11)



L 27349-66 ZWT(d)/ZWP(v)/ZWP(k)/ZWP(h) ZWP(1)

ACC NR: AP6007725

(A)

SOURCE CODE: UR/0413/66/000/003/0137/0138

AUTHORS: Zbarskiy, Yu. Sh.; Knyazhitskiy, I. I.; Krasnyanskiy, A. S.; Nayerman, M. S.

ORG: none

29  
B

TITLE: Device for honing a cylindrical surface. Class 67, No. 178708

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 137-138

TOPIC TAGS: machine tool, honing

ABSTRACT: This Author Certificate presents a device for honing a cylindrical surface with abrasive bars automatically forced apart inside the machined hole by a hydraulic drive. To provide continuous automatic control of the cutting regimes of the abrasive bars during the cutting process, the device is equipped with a monitoring system having feedback of the power required to turn the honing head (see Fig. 1). This feedback provides a hydraulic pressure level which increases the specific tool pressure of the bars as the surface roughness of the machined part decreases. To provide periodic pressing apart of the cutting bars over the working length of

Card 1/2

UDC: 621.923.5.02

L 27349-66

ACC NR: AP6007725

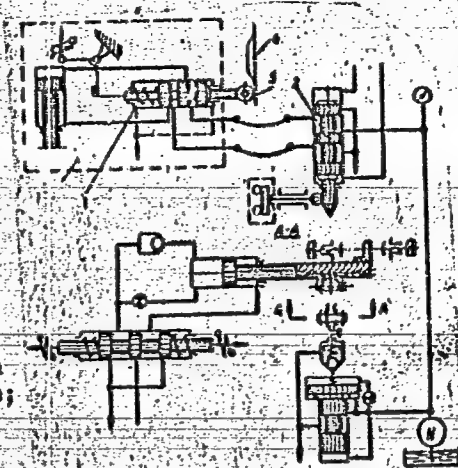


Fig. 1. 1 - honing head; 2 - motion reversing valve; 3 - auxiliary valve; 4 - cam; 5 - roller.

the opening without changing the head diameter during over-travel, an additional feature provides an auxiliary valve between the valve which reverses the hydraulic piston motion and the cylinder of the hydraulic drive. This valve is actuated during the axial oscillating motion of the honing head by a stationary cam. Orig. art. has: 1 figure.

Card 2/2 PB SUB CODE: 13/ SUBM DATE: 28Jun62

ZBARZH, Ya.M., prof.; MUKHIN, M.V., prof.; UVAROV, V.M., prof.;  
KABAKOV, B.D., doktor med. nauk; ALEKSANDROV, N.M., dots.;  
KLEMENTOV, A.V., dots.; FIALKOVSKIY, V.V., dots.;  
MUKOVOZOV, I.N., kand. med. nauk; CHUPRINA, Yu.V., kand.  
med. nauk; RYNKEVICH, V.S., red.; LEBEDEVA, G.T., tekhn.red.

[Operative maxillofacial surgery] Operativnaya cheliustno-  
litsevaia khirurgiya. Leningrad, Medgiz, 1963. 358 p.

(MIRA 16:12)

(FACE—SURGERY) (JAWS—SURGERY) (NECK—SURGERY)

ZBARZH, Yakov Mikhaylovich; FEDOROVSKAYA, N.V., red.

[Fractures of the mandible and their treatment] Perelomy  
verkhnei cheliusti i ikh lechenie. Leningrad, Meditsina,  
1965. 126 p. (MIRA 18:5)

ZEEGAN, V.; JURA, C.; GIURCONIU, M.; NICOARA, Tr.; CRETU, Gh.; MIREL, I.;  
VEDELEANU, V.; SCHMIDT, M.; COSTIN, Elena

Study of the treating of surface waters for obtaining drinking  
water in the semi-industrial laboratory. Bul St si Tehn Tim 9  
no.2:617-624 J1-D '64.

ZBEGAN, V.; JURA, C.; GIURCONIU, M.; NICOARA, T.; POPA, Gh.; CRETU, Gh.;  
BOTA, A.

Treating surface waters for industrial use. Bul St si Tehn Tim  
9 no.1:297-304 Ja-Je '64.

1. Submitted June 24, 1964.

L 35207-66

ACC NR: AP6026876

SOURCE CODE: RU/0022/66/011/002/0080/0086

AUTHOR: Zbagan, Vasile (Engineer; Professor emeritus); Jura, Cornel (Engineer);  
Giurconiu, Mihai (Engineer); Cretu, Gheorghe (Engineer); Mirel, Ion (Engineer) 19  
12

ORG: Polytechnical Institute, Timisoara (Institutul politehnic)

TITLE: Study of the water clarification process in cylindrical suspensional settling tanks

SOURCE: Hidrotehnica, gospodaria apelor, meteorologia, v. 11, no. 2, 1966, 80-86

TOPIC TAGS: water purification, surface water, water purification equipment, water tank

ABSTRACT: A description of the surface water treatment process used in Timisoara. The operation, involving use of cylindrical suspensional settling tanks, is described, and its effectiveness from economic-technical points of view presented. Orig. art. has 4 figures and 5 tables. /Based on authors' Eng. abstract/ /JPRS: 36,452/

SUB CODE: 13 / SUBM DATE: --Jul65 / ORIG REF: 005 / SOV REF: 002 /  
OTH REF: 001

Card 1/1

UDC: 628.16.663.63

0976

2631

HANZLIK, Jan; KLIK, Frantisek; PATROVSKY, Václav; VELICHOVSKY, Václav;  
ZEHLEK, Josef

The experimental loop of the KS-150 reactor. Jaderna energie  
10 no.11:394-397 N '64.

1. Institute of Nuclear Research of the Czechoslovak Academy  
of Sciences, Rez near Prague (for KLIK and Zehlik). 2. Závody  
V.I.Lenina National Enterprise, Pízen (for Patrovsky and  
Velichovsky). 3. Energoprojekt, Prague (for Hanzlik).

New stratigraphic data on the Baraolt Mountains. Dari seama  
sed 47:281-286 '59/60 [publ. '62].



GHEORGHIU, C.; ZHEREA, A.; VISARION, M.; CALOTA, G.

New data on the structure of the lower basin of the Strei as a result of geologic and geophysical studies. Anuarul Comit geol 32:97-165 '62.

L 30769-66 T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6020256

SOURCE CODE: RU/0003/65/016/11-/0591/0592

AUTHOR: Zberca, Irina

ORG: none

TITLE: Interferometric methods for the study of surface microstructure in some problems relating to metal chemistry and physics

SOURCE: Revista de chimie, v. 16, no. 11-12, 1965, 591-592

TOPIC TAGS: metal surface, microscopy, interferometer

ABSTRACT: A brief discussion of the three principal interferometric methods of determining the surface microstructure of metals and a description of the equipment used. The advantages of interferometric microscopy over classic microscopic studies are emphasized. Orig. art. has: 6 figures. [JPRS]

SUB CODE: 11, 20 / SUBM DATE: none / OTH REF: 010

Card 1/1

POTAPOV, Ivan Ivanovich, prof.; ZBEROVSKAYA, Nina Viktorovna;  
KALINA, Valentin Osipovich; VOLKOV, Yu.N., red.; PARAKHINA,  
N.L., tekhn. red.

[Tympanoplasty] Timpanoplastika. Moskva, Medgiz, 1963. 166 p.  
(MIRA 16:12)

(TYMPANAL ORGAN—SURGERY)

ZBICHORSKI, Zygmunt, doc., dr., inż.

Detection and utilization of production reserves. Przegl mech  
21 no.5:133-136 '62.

1. Instytut Ekonomiki i Organizacji Przemysłu, Warszawa

ZBIERANOWSKI, Włodzimierz

A nuclear spectrometer. Przegl elektronik 6 no.3:132-144  
Mr '65.

1. Department of Magnetism of the Institute of Basic Technical  
Problems of the Polish Academy of Sciences. Submitted December  
8, 1964.

ZBIERSKI, Tadeusz (Warszawa)

Buildings sunk in mud. Przełł budowł i bud mieszk 33 no.3:  
126-127 Mr'61

ZBIESZCZYK, Halina; ZARZYCKI, Stefan

Brucellosis under the form of Bang's disease in pregnancy.  
Pol. tyg. lek. 10 no.16:576-577 19 Ap '65.

1. Z Kliniki Położnictwa i Chorob Kobiecych Śląskiej AM w  
Zabrze (Kierownik: prof. dr. med. Mieczysław Głowinski).

ZBITKOVSKAYA, O.N.

Irritability of plants. Znan.sila 36 no.1:45 Ja '61. (MIRA 14:3)  
(Plants—Irritability and movements)



CERNOCH, Zdenek; ZBORIL, Miroslav

Roentgen cinematographic records of esophageal speech. Cesk.rentg.  
15 no.2:85-92 Ap '61.

1. Radiologicka klinika KU v Hradci Kralove, prednosta prof.dr.  
Sc. MUDr. Jan Bastecky. Otorinolaryngologicka klinika KU v Hradci  
Kralove, prednosta prof.dr.Sc. MUDr Jan Hybasek.  
(LARYNX surgery)  
(SPEECH)  
(CINEFLOUROGRAPHY)

ZBARZH, Yakov Mikhaylovich; TANFIL'YEV, D.Ye., red.; KHARASH,  
G.A., tekhn. red.

[Quick-setting plastics in dental and jaw prostheses] By-  
strotverdeiushchie plastmassy v zubnom i cheliustnom pro-  
tezirovanii. Leningrad, Medgiz, 1963. 110 p. (MIRA 16:7)  
(STOMATOLOGY) (PROTHESIS) (PLASTICS IN MEDICINE)

ZBARZH, Ya.M., doktor med.nauk; ALEKSEYEVA, B.A., kand.med.nauk

Calculus of the maxillary sinus. Vest.otorin. 23 no.93-94  
F '61. (MIRA 14:4)

1. Iz kafedry chelyustno-litseyoy khirurgii so stomatologiyey  
(nach. - prof. M.V. Mukhin) i kafedry rentgenologii (nach. -  
prof. Sh.I. Abramov) Voenno-meditsinskoy ordena Lenina akademii  
imeni S.M. Kirova Leningrad.  
(NOSE, ACCESSORY SINUSES OF)

ZBARZH, Ya.M., dotsent

Mandibular bone clamp with a hinge arrangement for fixing fractures of the lower jaw. Stomatologiya 37 no.2:68-69 Mr-Ap '58. (MIRA 11:5)

1. Iz kliniki chelyustno-litseyvoy khirurgii i stomatologii (nachal'nik-prof. M.V. Mukhin Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(JAWS--FRACTURE)

ZBARZH, Ya. M.

ZBARZH, Ya. M., dotsent, polkovnik meditsinskoy sluzhby; KABAKOV, B.D.,  
dotsent, podpolkovnik meditsinskoy sluzhby

Certain aspects of modern therapy of maxillofacial wounds. Voen.-  
med. zhur. no. 7:13-18 J1 '57. (MIRA 11:1)  
(FACE, wounds and injuries,  
ther. (Rus))

ZBARZH, Ya.M., dotsent

Further comment on the quick-hardening plastic "Styracryl";  
answer to M.A.Napadov and others, workers at the Kharkov Dental  
Materials Plant. Stomatologiya 38 no.3:70-72 Ky-Je '59.  
(MIRA 12:8)

(PLASTICS)

ZBARZH, Ya.M.

YEZRIYEV, I.M., starshiy nauchnyy sotrudnik (Leningrad, kanda. Griboyedova, d.150, kv.8); ZBARZH, Ya.M., dotsent (Leningrad, Nevskiy pr., d.1, kv. 5); PAVLOVA, G.M.

Reaction of muscular tissue to inserts of high polymer plastic styraeryl and ACR 7 [with summary in English, p.140]. Vest.khir. 79 no.12:89-94 D '57. (MIRA 11:1)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta polimerizatsionnykh plastmass (dir. - N.M.Yegorov) i kliniki chelyustno-litsevoy khirurgii i stomatologii (nach. - prof. M.V.Mukhin) Voenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova.

(ACRYLATES, eff.

highly polymerizing prep. reaction of musc. tissue to implants)

(MUSCLES, physiol.

eff.of highly polymerizing acrylic implants)

ZBARZH, Ya.M., dotsent

Using styrcryl, a fast-hardening plastic for making dental  
prosthesis; preliminary report. Stomatologiya 36 no.2:48-50 Mr-Apr '57  
(MLRA 1G:6)

1. Iz kliniki chelyustno-litseyoy khirurgii i stomatologii  
(nachal'nik - prof. M.V.Mukhin) Voenno-meditsinskoy ordena Lenina  
akademii imeni S.M.Kirova.

(PLASTICS) (DENTAL PROSTHESIS)



ZBARZHEVETSKIY, Ye.Ya..

Land resources for increasing the feed production on collective farms. Zemledelie 7 no.4:86-87 Ap '59. (MIRA 12:6)

1. Starshiy inzh.-zemleustroitel' inspektsii po sel'skomu khozyaystvu.  
(Kirovograd Province--Collective farms)  
(Forage plants)

ZBEGAN, Vasile, ing., prof. emerit; JURA, Cornel, ing.;  
GIURCONIU, Mihal, ing.; NICOARA, Traian, ing.

Research and results obtained at the treatment station  
and decantation apparatus of the surface water plant in  
the city of Timisoara. Hidroteh apele meteor 9 no.1:13-17  
Ja''4.

ZBEGAN, Vasile, ing., profesor emerit; JURA, Cornel, ing.; GIURCONIU, Mihai, ing.; NICOARA, Traian, ing.

Study on the operation of aeration and filtration plants at the surface water station in Timisoara. Hidroteh apole meteor 9 no. 2:57-61 F '64.

ZBENOVICH, V. [Zbenovych, V.], nauchnyy sotrudnik

What the excavations told us. Nauka i zhyttia 12 no.9:58-60  
S '62. (MIRA 16:1)

1. Institut arkhologii AN UkrSSR.  
(Ukraine--Antiquities)

ZBERLIN, L. A.

"The Drying of Compressed Air in a Compressor Installation," Prom. Energet.,  
No. 4, 1948. Mbr., Special Construction Bur., -Main Admin. for Installation  
Ind. Elec. Power Stations, Min. Elect. Power Stations, -c1948-.

"Reversal of Circulation in Water Heating Boilers Operating on the Mixing  
System"-Prom. Energet, No. 11, -49.

SEGAL, Pawel; KIKIELA, Marian; MRZYGLOD, Stanislaw; ZEROMSKA-ZBIERSKA, Izabela

On the problem of coexistent familial pigmentary retinal degeneration and Kartagener's triad. Pol. tyg. lek. 18 no.23: 809-812 3 Jo '63.

1. Z Kliniki Chorob Oczu WAM w Lodzi; kierownik: prof. dr med. P. Segal i z Oddzialu Ocznego Szpitala Woj. w Zielonej Gorze; ordynator: dr M. Kikiela.

(RETINITIS PIGMENTOSA) (KARTAGENER TRIAD)

ZBEROVSKAYA, N. V.

USSR/Medicine - Antibiotics

Jun 51

"Prolongation of the Action of Penicillin By  
Injecting It Into a Zone of Tissue Hemorrhage,"  
Prof A. I. Fel'dman, N. V. Zherovskaya, Ye. M.  
Gofman, Ear, Nose, and Throat Clinic, Gen Inst for  
Advanced Tng of Physicians, Moscow Oblast Sci  
Res Clinical Inst

"Klin Med" Vol XXIX, No 6, pp 37-40

Prolonged action of penicillin is achieved by in-  
jecting it into a zone of hemorrhage. Such a  
zone can be produced by cupping.

198r54

Dissertation: "Prolongation of the Action of Penicillin in a Organism by Administering it in an Area of Tissue Hemorrhage." Cand Med Sci, Central Inst for the Advanced Training of Physicians, 8 Jun 54. Vechernyaya Moskva, Moscow, 28 May 54.

SO: SUM 284, 26 Nov 1954



ZBEROVSKAYA, N.V., kandidat meditsinskikh nauk; YAKOVLEVA, I.Ya.

Conservative therapy of antritis and mastoiditis in children with subperiosteal abscesses. Vest.otc-rin. 18 no.4:52-55 J1-Ag '56.

(MLRA 9:9)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasluzhennyy deyatel' nauki prof. A.I.Fel'dman) TSentral'nogo instituta usovershenstvovaniya vrachey i kliniki bolezney ukha, gorla i nosa (zav. prof. I.Ya.Sendul'skiy) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta.

(MASTOIDITIS, in infant and child,

with subperiosteal abscess, conservative ther.(Rus))

(ABSCESS,

masteid subperiosteal in antritis & mastoiditis in child., conservative ther. (Rus))

POTAPOV, I.I.; POGOSOV, V.S.; ZBEROVSKAYA, N.V.

In memory of Honored Scientist and Professor Aleksandr Isidorovich Fel'dman. Vestnik. 22 no.6:115-116 '60.

(MIRA 14:1)

(FELDMAN, ALEKSANDR ISIDOROVICH, 1880-1960)

ZBEROVSKAYA, N.V., kand.med.nauk

Partial sequestration of the labyrinth following general cavity  
operation and tympanoplasty. Vest.oto-rin. 20 no.5:112-113  
S-0 '58 (MIRA 11:12)

1. Iz kafedry bolezney ukha, gorla, i nosa (zav. zaslyzhennyy  
dayatel' nauki prof. A.I. Fel'dman) Tsentral'nogo instituta  
usovershenstvovaniya vrachey.

(LABYRINTH, dis.

sequestration, postop. (Rus))

(EAR, MIDDLE, surgery,

postop. labyrinthine sequestration (Rus))

ZBEROVSKAYA, N.V., kand.med.nauk

Sensitivity of microflora to antibiotics in patients with suppurative otitis media and otogenic intracranial complications. Zhur. ush., nos. 1 gorl. bol. 20 no.5:57-60 8-0 '60. (MIRA 14:6)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - doktor med.nauk I.I.Potapov) Tsentral'nogo instituta usovershenstvovaniya vrachey.  
(BACTERIA, EFFECT OF DRUGS ON) (ANTIBIOTICS)  
(EAR--DISEASES)

ZBEROVSKAYA, N.V., kand.med.anuk, YAKOVIEVA, I.YA.

~~Tumorous form of chronic lymphatic leukosis with affection of the  
larynx, trachea, and bronchi. Vest.oto-rin. 20 no.6:118-119  
N-D '58 (MIRA 11:12)~~

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasluzhenny  
deyatel' nauki prof. A.I. Fel'dman) Tsentral'nogo instituta  
usovershenstvovaniya vrachey, Moskva.

(LEUKEMIA, LYMPHATIC, compl.

lymphoblastic infiltration of bronchi, larynx  
& trachea (Rus))

(RESPIRATORY TRACT, dis.

lymphoblastic infiltration of bronchi, larynx  
& trachea in lymphatic leukemia (Rus))

ZBEROVSKIY, N.V.

Nasmork [The cold in the head]. Moskva, Medgiz, 1952

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

ZBEROVSKIY, V.I., gornyy inzh.

Experience in using flexible non-sectional shields. Ugol' 35 no.9:  
9-11 S '60. (MIRA 13:10)

1. Shakhta "Yuzhnaya."  
(Kuznetsk Basin--Coal mines and mining) (Mine timbering)

ZBEROVSKIY, V.I., inzh.

Causes of accidents in working in shielded sections. Bezop.truda  
v prom. 6 no.3:5-6 Mr '62. (MIRA 15:3)

1. Shakhta "Krasnyy uglekop" kombinata ~~Kuznetsk~~ugol' Prokop'yevsko-  
Kiselevskogo rayona Kuzbassa.

(Kuznetsk Basin—Coal mines and mining—Accidents)



ZBESINSKIY, Leon Frantsovich; MARKOV, A.P., nauchnyy redaktor; SHAURAK, Ya.N.,  
redaktor; LEVOCHKINA, L.I., tekhnicheskiiy redaktor

[Assembling ship's equipment] Sudovye slesarno-montazhnye raboty.  
Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1957. 327 p.  
(Ships--Maintenance and repair) (MIRA 10:9)

ZBICHORSKI, Z.

Discussion of an article by S. Filipkowski, "The Problem of Training Engineers and Technicians in Industrial Safety and Hygiene." p. 33.  
(OCHRONA PRACY; BEZPIECZENSTWO I HIGIENA PRACY. Vol. 10, no. 7, July 1956.  
Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.

ZBICHORSKI, Zygmunt, doc. dr inż.

Basic principles of intrafactory transportation. Przegl mech 22  
no.1:9-12 10 Ja '63.

1. Instytut Ekonomiki i Organizacji Przemysłu, Warszawa.

ZBICHORSKI, Z.

Transporting molten metal in iron and steel foundries. p. 146

Vol. 9, no. 5, May 1955, Vol. 9, no. 5, May 1955, OCHRONA PRACY; BEZPIECZENSTWO  
I HIGIENA PRACY

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (ZEAL), Vol. 4, No.9, LC,  
Sept. 1955, Uncl.

ZBICHORSKI, Zygmunt, doc., dr., inż.

Management of factory transpiration. Ekonomia org pracy 13  
no.4:145-149 Ap '62.

1. Członek Komitetu Redakcyjnego miesięcznika "Ekonomia i  
Organizacja Pracy".

ZBICHORSKI, Z.

Foreman, an ideal and reality. p. 6.

PRZEGŁAD TECHNICZNY. (Naczelna Organizacja Techniczna)  
Warszawa, Poland  
Vol. 80, no. 17, Apr. 1959.

Monthly List of East European Accessions Index, (EEAI) LC, Vol. 8, no. 64, June 1959  
Uncl.

ZBICHORSKI, Zygmunt, doc., dr., inż.

Costs and selection of internal transport means in machinery industry enterprises. Przegl mech 20 no.23:713-716 '61.

(Machinery industry) (Transportation)

ZBICHORSKI, Z., doc., dr., inz.

"Analysis of internal business transportation" by Dr. Horst Mernach.  
Reviewed by Z. Zbichorski. Przegl mech 20 no.23:730 '61.

(Transportation)



ZBIEC, L.

POLAND / Cultivated Plants. Fodder Grasses and Edible Roots. M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24920

Author : Birecki, M.; Zbiec, Z.

Inst : Not given

Title : Selection of Cover Plants for Mixing Perennial Grasses in Field Crop Rotations

Orig Pub : Roczn. nauk rolniczych, 1957, A74, No 4, 705-740

Abstract : The Central Higher School of Agriculture (Poland) in 1951-1954 experimented, in the capacity of cover plants, on rye, oats, and winter and spring varieties of wheat, barley and rape for the mixtures of clover, timothy grass, dew grass and tall ryegrass (I) and clover with timothy grass (II). In years with

Card 1/3

POLAND / Cultivated Plants. Fodder Grasses and Edible  
Roots.

M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24920

insufficient precipitation, the largest harvest of the mixtures' green mass was obtained following the spring cover cultivations; in the case of a large reserve of soil moisture - after the winter crops. The higher the harvest of the winter cultivations, the lower is the harvest of the mixtures. At the utilization of the winter cover crops, the I mixture produced, on an average, a harvest 13% larger; the II mixture produced larger crops with the spring cultivations. In the I mixture, cereal grasses, especially those of the spring cover cultivations, were prevailing in weight. Under unfavorable weather conditions, the harvest of the

Card 2/3

84

POLAND / Cultivated Plants. Fodder Grasses and Edible  
Roots.

M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24920

second-year usage constituted 45% and 38% of the harvest of the first-year usage; under favorable conditions, 10% and 68%. Among the winter cover cultivations, the best results were obtained by the use of rye, which assisted in better accumulation of moisture in the soil and in diminishing weed growth. Rape, oats and barley are recommended from the different spring cover cultivations. Barley is the best cover cultivation for the II mixture. It is also recommended to make use of spring wheat. -- I. N. Zaikina

Card 3/3

POLAND

WOJEWSKI, Alfons and ZBIECZOWA, Irena; Department of Pharmacology (Zaklad Farmakologii) (Director: Docent Dr. M. HAZER) and Urology Division (Oddzial Urologiczny) (Director: Acting Prof. Dr. A. WOJEWSKI) of the PAM [Pomorska Akademia Medyczna, Pomeranian Medical Academy] in Szczecin

"Excretion of 5-Hydroxy-indole-acetic Acid in Urine of Patients with Cancer of the Prostate Gland."

Warsaw-Krakow, Przegląd Lekarski, Vol 19, Ser II, No 6, 24 Jun 63, p. 273

Abstract: [Authors' English summary] The authors investigated the content of 5-HIA [see title] acid in the urine of healthy males, of patients with cancer of the prostate, and in cases of chronic prostatitis. The values obtained were the same for all groups, and the authors conclude that this determination is of no value in the diagnosis of cancer of the prostate. There are seven (7) references, of which one each are [presumed] Soviet and German, and the others English.

1/1

ZBIEGLEN, J.

10.6-307 551.590.24:551.521.64:5  
Koczan, Irena; Zbiegien, Jartwiga; Ogiński, Andrzej and Wiecha, Damian, Wyniki badań dotyczących odczynu Takaty wykonanych w Suwałkach podczas zaćmienia Słońca dnia 30 czerwca 1954 r. [Results of observations of the Takata reaction made at Suwałki during the June 30, 1954 solar eclipse.] *Przegląd Geofizyczny*, Warsaw, 2(3):121-134, 1957. 5 figs. (incl. map), table, 12 refs., eqs. French summary p. 136. DWB, DLC—The object of this paper is to determine if a modification of the number of flocculations (F) has taken place during the total solar eclipse observed at Suwałki, June 30, 1954 similar to those observed by TAKATA at Kushiro during the eclipse of Feb. 5, 1943. A statistical examination of the relationship between the values of F and the solar effect does not prove the existence of a relationship between the number of flocculations and solar radiation. *Subject Headings:* 1. Takata reaction 2. Eclipse effects on flocculations 3. Solar eclipse, June 30, 1954 4. Suwałki, Poland.—A.M.P.

CR.

ZBIEGNIOWSKI, A.

Little Stanislaus will be a technician. p. 14. (SKRZYDLATA POLSKA, Warszawa, Vol. 11, No. 8, Feb. 1955)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955,  
Uncl.

L 00283-66 EWT(1)/EPF(c) IJP(c) HW/GO  
ACCESSION NR: AP5011862

PO/0053/65/000/003/0138/0144  
621.387

AUTHOR: Zbieranowski, W. 44.55

TITLE: Spectrometer for the investigation of broad nuclear-magnetic-resonance lines

SOURCE: Przegląd elektroniki, no. 3, 1965, 138-144

TOPIC TAGS: resonance line spectrometer, spectrometer, nuclear magnetic resonance, unclear magnetic resonance line

ABSTRACT: In a state-of-the-art report, the paper describes the basic elements of an NMR spectrometer for the investigation of media showing broad resonance lines. A block diagram of such a spectrometer is shown together with its external view. The following are discussed: The resonance signal detector employing autodyne generator (its circuit diagram is shown). The methods of recording the spectral line and the consideration underlying its choice for a specific application. The considerations pertaining to the modulation of the constant magnetic field. Curves showing the dependence of the resonance curve width and signal amplitude on various measurement conditions are presented. The method of calibrating the modulation field and the method of determining the

Card 1/2

L 00283-66

ACCESSION NR: AP5011862

sensitivity of a spectrometer for  $F^{19}$  nuclei are discussed. Resonant curves of  $F^{19}$  nuclei in teflon at 16 Mc and of  $H^1$  nuclei in igalite are shown. "The author thanks Prof Dr. A. Smolinski and Docent Dr. R. Wadas for their help and reviewing the paper and to Engr. J. Sasa for cooperation and to J. Matuszewski for preparing the photographs." Orig. art. has: 9 figures, and 6 formulas. <sup>44,55</sup>

ASSOCIATION: Zaklad Magnetykow IPPT PAN (Department of Magnetic Materials, IPPT PAN) <sup>44,55</sup>

SUBMITTED: 08Dec64

ENCL: 00

SUB CODE: NP

NO REF SOV: 005

OTHER: 010

*SW*  
Card 2/2



ZBIERANOWSKI, Z.

Utilization of existing Jacquard cards of a flat (Jacquard) crocheting knitter.

(Conclusion) p. 71.

ODZIEZ, Lodz, Vol. 6, no. 4, Apr. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

ZBIERANOWSKI, Włodzimierz; SASS, Jerzy

Nuclear magnetometer. Przegl elektroniki 5 no.2:74-82 F164

1. Zakład Magnetyków, Instytut Podstawowych Problemów Techniki,  
Polska Akademia Nauk, Warszawa.

ACCESSION NR: AP4022667

P/0053/64/000/002/0074/0082

AUTHOR: Zbieranowski, Wlodzimierz; Sass, Jerzy

TITLE: Nuclear magnetic resonance gaussmeter

SOURCE: Przegląd elektroniki, no. 2, 1964, 74-82

TOPIC TACS: magnetic resonance, resonance gaussmeter, resonance, gaussmeter, magnetic field, magnetic resonance measurement, magnetic resonance gaussmeter, nuclear magnetic resonance measurement, nuclear magnetic resonance gaussmeter

ABSTRACT: The general bases are given and the conditions for measurement of a magnetic field by means of a nuclear magnetic resonance gaussmeter. There is a description of the measuring instrument and a discussion of the individual elements of the system. An analysis is given for the accuracy of the measuring instrument. "In conclusion the authors wish to express thanks to Dr. Adam Smolinski and Dr. Romuald Wadas for lively interest and constructive advice while this work was being carried out." Orig. art. has: 12 figures, 9 formulas.

ASSOCIATION: Zakład Magnetyków IPPT PAN (Department of Magnetism IPPT PAN)

Card 1/4

L 39594-66 T/ENP(t)/ETI IIP(c) WH/JD/JG/GD

ACC NR: AP6001435

SOURCE CODE: PO/0053/65/000/009/0450/0457

AUTHOR: Zbieranowski, Wlodzimierz; Szymczak, Henryk

ORG: Institute of Magnetic Materials, IPPT, Polish Academy of Sciences  
(Zaklad Magnetykow IPPT PAN)

TITLE: The effect of quadrupole interactions and structural defects  
on the nuclear resonance of  $Al^{27}$  in ruby<sup>1</sup>

SOURCE: Przegląd elektroniki, <sup>1</sup>no. 9, 1965, 450-457

TOPIC TAGS: magnetic crystal, aluminum, ruby, crystal lattice defect,  
isotope, nuclear magnetic resonance, nuclear spectroscopy

ABSTRACT: The article discusses the theoretical and practical possibilities of investigating the effect of crystal lattice defects and of quadrupole interactions on the nuclear resonance of the isotope  $Al^{27}$  in ruby single crystals having various concentrations of chromium. The results are given and the experimental conditions for the measurements carried out are discussed. This investigation of the resonance spectrum of ruby as a function of domain concentration, and of the effect of the electric field and of temperature is a continuation of earlier studies in the same direction. On the basis of the results it may be concluded that the measurements based on J.R.P. (nuclear

UDC: 621.318

Card 1/2

1 3700-36  
ACC NR: AP6001435

spectroscopy) permit the relative comparison of various types of structural defects of ruby crystals. From the practical point of view the positive attribute of the method described is that it makes it possible to carry out measurements on whole batteries of rubies without the costly mechanical working necessary in other methods. It also permits working out optimum conditions for the controlled stress relief of single crystals. (b) "The authors express their warm thanks to Prof. Dr. A. Smolinski for his kind assistance in carrying out this investigation, Privatdocent Dr. R. Wadasow for his constructive observations and fruitful discussions, and P.J. Matuszewski for making the photographs." Orig. art. has 4 figures, 2 tables and 12 formulas.

SUB CODE: 20/ SUBM DATE: 23Jun65/ ORIG REF: 001/ OTH REF: 008

Card 2/2 MLP

ODZIEZ, L.  
Utilization of existing Jacquard cards of a flat (Jacquard) crocheting knitter. Pt. 1.  
(To be contd.) p. 41. (ODZIEZ, Lodz, Vol. 6, no. 1, Jan. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jun. 1955,  
Uncl.

ZBIERANOWSKI, Z.

Utilization of existing Jacquard cards of a flat(Jacquard)crocheting knitter. Pt. 1.  
(To be contd.) p. 41. (ODZIEZ, Lodz, Vol. 6, no. 3, Mar. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol 4, No. 6, Jan. 1955,  
Uncl.

Zb. ERANOWSKI, Zd.

POLAND / Chemical Technology. Chemical Products and Their Application. Dyeing and Chemical Treatment of Textile Materials. H

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 33628.

Author : Zbieranowski, Zd.

Inst : Not given.

Title : Knitted Waterproof Coats.

Orig Pub: Techn. wlokienn., 1958, 7, No 5, 160-168.

Abstract: The production of knitted waterproof coats of the type "Lodon," the composition of the mixture for the yarns, and the methods of dyeing, knitting and processing are described. Indicators of laboratory experiments, specifying the quality of the products, are described. -- L. Kozlov.

Card 1/1



ZBIERANSKI, CZESLAW M.

Technology

O narodzinach lotnictwa polskiego. New York, 1958. 131 p. (The birth of Polish aviation)

Monthly List of East European Acquisitions (EEAI), LC, Vol. 8, No. 3, March 1959  
Unclass.

ZBIEROWSKI, Witold, mgr.

Current problems of Soviet labor psychology. Przegl gorn 18  
no.1:75-76 '62.

ZBIERSKI, S.

The classification of rotary grinders. p.209.

MECHANIK. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich)  
Warszawa, Poland. Vol.28, no.6, June 1955.

Monthly list of East European Accession. (EEAI) LC, Vol.9, no.1, Jan. 1960

Uncl.

ZBIERSKI, S.

New organization of the technological preparation of production. p.298.  
MECHANIK (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich) Warszawa  
Vol. 28, no. 8, Aug. 1955

So. East European Accessions List

Vol. 5, No. 9

September 1956